

Project Details

Location: 10 Morshead Court,
Redbank, QLD

Finish Date: 10/10/2021

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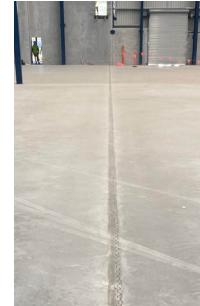
Customer: Bess Concrete

Specifier: Spaceframe - Goodmans

Developer: Goodmans

Product

Danley™
WavePlate™
ArmourMate™



Armour edging solution ticks boxes on easy installation and aesthetics.

Concreter gives thumbs up to WavePlate ArmourMate's easy installation and laser cut armour edging for a perfect concrete finish.

Commercial property developer Goodman is a fan of Danley's WavePlate ArmourMate. The cover plate armour edging solution bridges the gap between concrete slabs, reducing spalling damage and supporting a super smooth transition for wheeled traffic travelling over concrete joints. Developer Goodman specified WavePlate ArmourMate as a key element in the construction of a distribution hub with a 10,000 m² steel fibre reinforced concrete floor. Based in, Brisbane, the building functions as a distribution centre for Zenexus – a consumer goods company and the name behind popular storage brands, including Handy Storage, Rack It, Wrap & Move, Flexi Storage and Clever Cube.

Less weight, faster work

Mick Bartlett, Senior Site Forman at subcontractor Bess Concrete, oversaw slab design and layout, setup, and concrete pours. A first-time user of WavePlate ArmourMate, Bartlett was impressed by the lightweight nature of the edging solution. "I was using a heavy 10mm armour plate – you couldn't break it, but it was slow and more difficult to manoeuvre," he said. "WavePlate ArmourMate is easier to install because it's much lighter."

Low impact joint forces reduce wear and tear

Traditional armoured joints comprise two parallel faces. However, wheeled traffic crossing the joint generate high impact forces that can damage both the joint and the materials handling equipment. WavePlate ArmourMate effectively disrupts the actual joint line, using a waved top-plate to eliminate the physical straight between slabs, ensuring wheels smoothly transition from one slab to another. The WavePlate ArmourMate offset design distributes the wheel force to both sides of the slab simultaneously, reducing overall impact. Allowing for up to 20mm expansion in joints, WavePlate ArmourMate remains supported on both sides of the gap, aiding thermal expansion and protecting the load transfer mechanism.

The end of form boards

One of the added benefits of using plate armour edging is the elimination of form boards. Two pour concrete slabs? No problem – WavePlate ArmourMate stays in place, with the galvanised separation plate acting as the sacrificial formwork, replacing the traditional form board. "WavePlate is faster to install because there's no form work – it's a standalone product. You simply drive in the pins – it's very fast," said Bartlett. And while uniform slab designs and layouts are in the hands of the concreter, two critical features of WavePlate ArmourMate help deliver a slick finish: a twist and turn stake system for fine height adjustment; and laser cut armour edging for a neat and tidy finish.

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